

ABSTRACT OF THE DISCLOSURE

Duplex operation for ultrasound imaging uses a single fixed voltage level. Both B-mode and color-mode imaging are performed using a power level that may be less than the power level for single-mode B-mode imaging, and may be greater than the power level for single-mode color-mode imaging. A duty cycle of color-mode pulses may be reduced. To enhance image quality, the number of cycles in the B-mode pulse profile may be increased. To enhance image quality, the center frequency of the B-mode pulse profile may be reduced, and dynamic filtering for B-mode received pulses may be appropriately modified.